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REPLY FORM - INVESTIGATIVE INFORMATION SERVICES

To help us better serve your investigative needs, please complete and return to:

FBI, Butte Information Technology Center
400 Main Street, Room #115
Butte, Montana 59701

BUTTE ITC RECORD #:

183649

UCFN:

ANALYST:

(406) 496-3801

SUBJECT:

b3
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Was the information provided helpful to your investigation? ☐ YES ☐ NO
If NO, please let us know how we could be more helpful to your investigation: _____

ACCOMPLISHMENT(S) resulting from information:

PERSON(S): (Enter total number applicable to each of the following)

 FBI Fugitive(s) Arrested: ☐ FBI ☐ Local Date

(Forward photo of Fugitive arrested with this Reply form)

Local Fugitive(s) Arrested: ☐ FBI ☐ Local Date _____

(Forward photo of Fugitive arrested with this Reply form)

____ Subject(s) ☐ Arrested ☐ Located ☐ Identified

(Forward photo of Subject arrested with this Reply form)

____ Witness(es) ☐ Located ☐ Identified

____ New Witness(es) ☐ Located ☐ Identified

BUSINESS(ES): (Enter total number applicable to each of the following)

 New Business(es) Identified

 New Business Associates/Associations Identified

Financial Audit Trail(s) Enhanced

ASSET(S): (Enter total number applicable to each of the following)

(TYPES: C = CASH R = REAL PROPERTY P = PERSONAL PROPERTY)

____ Asset(s) ☐ Located ☐ Identified [VALUE: _____ TYPE: _____]

____ Asset(s) Subject to Seizure/Forfeiture [VALUE: _____ TYPE: _____]

 Potential Economic Loss Prevented [VALUE: TYPE:]

OTHER: (Enter total number applicable to each of the following)

 New Case(s) Initiated

New Lead(s) Generated

COMMENTS :

1 - Case File
1 - BITC

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(12/31/1995)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE

Date: 10/22/1998

To: New York

From: New York

C-37

Contact: SA [redacted] ext. 3187



b3
b6
b7C
b7E

Approved By: [redacted]

Drafted By: [redacted]

Case ID #: [redacted] (Pending)

Title: UNSUBS;
aka HACKERS FOR GIRLIES;
NEW YORK TIMES-VICTIM;
CITA;
OO:NY

Synopsis: Request creation of sub file for subpoena returns.

Details: Pursuant to a Federal Grand Jury Subpoena, a package of documents has been delivered to the New York office. It is requested that a sub-file be created for these documents.

♦♦

UPLOADED
WITH/TEXT
WITHOUT TEXT
BY [redacted]
DATE 10-23-98

9J_NY/EE

b3
b6
b7C
b7E

SUBFILE Done 10-23-98
OPEN OR REOPEN CASE "GT"
ORIGIN DATE
SUPV. SECT



(12/31/1995)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE

Date: 10/26/1998

To: [REDACTED]

Attn: SAC [REDACTED]
SSA [REDACTED] SOG
SA [REDACTED]

b3
b6
b7C
b7E

From: New York

C-37

Contact: SA [REDACTED] 212.384.3187



Approved By: [REDACTED]

Drafted By: [REDACTED]

Case ID #: [REDACTED] (Pending)

Title: UNSUB(S);
AKA HACKERS FOR GIRLIES;
NEW YORK TIMES- VICTIM;
CITA
OO:NY

SOURCE INFORMATION INDICATES [REDACTED]

b6
b7C
b7D

Synopsis: To set lead requesting surveillance coverage on [REDACTED]
[REDACTED]

Enclosures: 2 - Copies of EC dated 10/26/98; 2 - Copies of
[REDACTED] Driver's license photo of [REDACTED]; 2 - Color Photos of
[REDACTED] taken at the end of July 1998.

Details: In April 1998, [REDACTED]
[REDACTED] provides internet/network security
testing services for large companies. [REDACTED] and [REDACTED]
[REDACTED] are [REDACTED] employees.

b6
b7C

[REDACTED] and [REDACTED] are believed to be members of a
hacking group called HACKERS FOR GIRLIES (HFG) and [REDACTED]
[REDACTED] HFG has claimed responsibility for recently hacking
the New York Times, NASA, MOTOROLA, PENTHOUSE and RT66.com.

[REDACTED] is described as paranoid. [REDACTED] believes that
he is being investigated by the FBI for the NY TIMES hack.
[REDACTED] has published articles on the internet about ways of
concealing your identity and probably surveillance

[REDACTED] and [REDACTED]
running the day to day business operations of [REDACTED]

NAME: [REDACTED]
RACE: White
SEX: Male

UPLOADED

WITH/TEXT

WITH/CUT

BY

DATE

OCT 27 1998

b3
b6
b7C
b7E

To: [redacted] From: New York
Re: [redacted] 10/26/1998

b3
b6
b7C
b7E

HEIGHT:
WEIGHT:
HAIR:
AGE:
DOB:
SSN#
ADDRESS:

DRIVER'S
LICENSE #

vehicle:

BUSINESS:

ADDRESS:

b6
b7C

[redacted] works at [redacted] as a [redacted]
[redacted] and a member of HFG.

b6
b7C

NAME: [redacted]
RACE: White
SEX: Male
HEIGHT:
WEIGHT:
HAIR:
AGE:
DOB:
SSN#
DRIVER'S
LICENSE #
ADDRESS:

[redacted] works at [redacted] as a [redacted]
and a member of HFG.

b6
b7C

NAME: [redacted]
RACE: White
SEX: Male
AGE: [redacted]

To: [redacted] From: New York
Re: [redacted] 10/26/1998

b3
b6
b7C
b7E

LEAD (s):

Set Lead 1:

[redacted]

AT [redacted]

Conduct surveillance on [redacted] to verify [redacted] residence. Determine [redacted] business location other than Mailbox Etc. location. Identify where back-up computer storage tapes or disk are stored after being taken from [redacted]

b6
b7C
b7D

Identify [redacted] residence(s) and other identifying information (i.e. vehicles, associates, daily schedule, etc). Provide photos if possible.

SOURCE INFORMATION INDICATES [redacted]

♦♦



NATIONAL SECURITY DIVISION
BRANCH B



ADIC SCHILIRO _____
SAC O'NEILL (NSD) _____
SAC DUNBAR (ADMINS.) _____
SAC GONZALEZ (CRIM. DIV.) _____
SAC DORCH (SPEC. OPS) _____

SUPV. [redacted] I-20 _____
SUPV. [redacted] I-21 _____
SUPV. [redacted] I-24 _____
SUPV. [redacted] I-26 _____
SUPV. [redacted] I-27 _____
SUPV. [redacted] I-28 _____
SUPV. [redacted] I-29 _____
[redacted] _____

CDC ROTH _____

SUPV. [redacted] _____
SA C-37 _____
[redacted] _____

A/ASAC [redacted] _____
ASAC [redacted] _____
PM [redacted] _____
ASAC _____
OSM _____
T&A _____
PROPERTY _____
HRMU _____
FOR INFORMATION _____
SEE ATTACHED _____
SEE ME PLEASE _____
PLEASE HANDLE _____
PER YOUR REQUEST _____

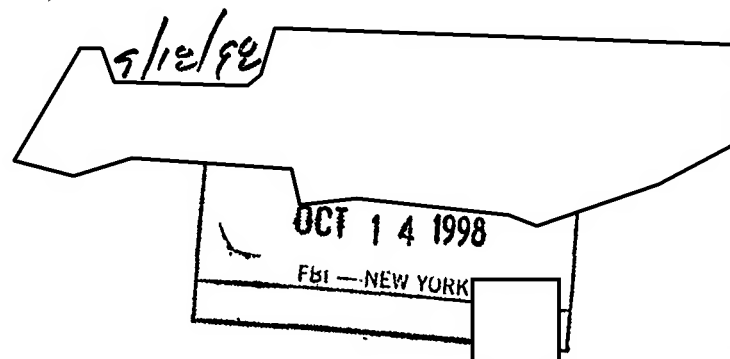
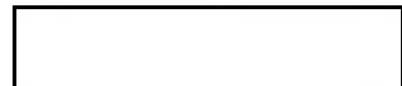
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For your information.



FROM THE EDITORS

Learning from the Hackers

You've found a vulnerability in certain widely used e-mail programs that could let vandals wreck computers by remote control. Announcing your discovery will allow programmers to fix this problem, but it will also tip off would-be saboteurs. To publish or not to publish?

This past summer some experts faced that dilemma. They wisely chose to tell the world. Fixes were written and distributed quickly, and as of this writing, no one seems to have exploited the weakness.

We faced a similar decision over Carolyn P. Meinel's article on page 98, "How Hackers Break In ... and How They Are Caught." Meinel describes how a fictional hacker might penetrate a corporation's computer system. Is publishing it irresponsible? Obviously, we think not. Improving the security of networked computers is crucial. We can best inform readers about how to defend themselves by explaining what attacks to expect.



HIGH-TECH BURGLARS
don't need to be programmers.

Serious hackers already know these secrets. Anyone who wants to know how to crack a system can get all the advice he (or, rarely, she) needs on Web sites and bulletin boards. The software equivalents of crowbars and lockpicks are available on-line. Hackers don't need to be programmers these days any more than burglars need to be architects.

And cracking a system doesn't take a criminal mastermind when the authorized users are locking the front door with masking tape and string. Every person on a network who chooses an obvious password or, worse, patches in an unguarded phone line is shaving years off the life of some poor system administrator.

Here is how mainstream hacking has become: thousands of hackers gather in Las Vegas every summer for a meeting called Def Con. (Reality check: subversive groups don't hold annual conventions in Vegas.) Luckily, most hackers are more curious and adventurous than malicious and so are willing to share their knowledge of the Internet's soft underbelly. Smart corporations, law enforcers and the military are listening.

We all should be. Vulnerability to hacking is not a passing phase. No matter how strong the firewalls around systems, some people will always try to break in—and administrators will retaliate with stronger walls.

Vigilance and prudence can keep malicious hacking in check. Reading our special report on computer security and the Internet is a good way to start. Then think about changing your passwords—but for heaven's sake, stay away from birthdays, J.R.R. Tolkien characters and *Star Trek* references!

John Rennie

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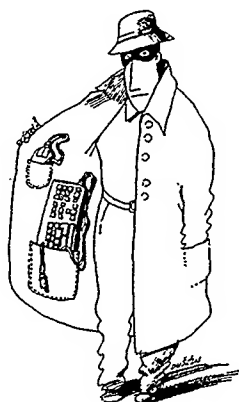
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How Hackers Break In...

Port scanners, core dumps and buffer overflows are but a few of the many weapons in every sophisticated hacker's arsenal. Still, no hacker is invincible

by Carolyn P. Meinel

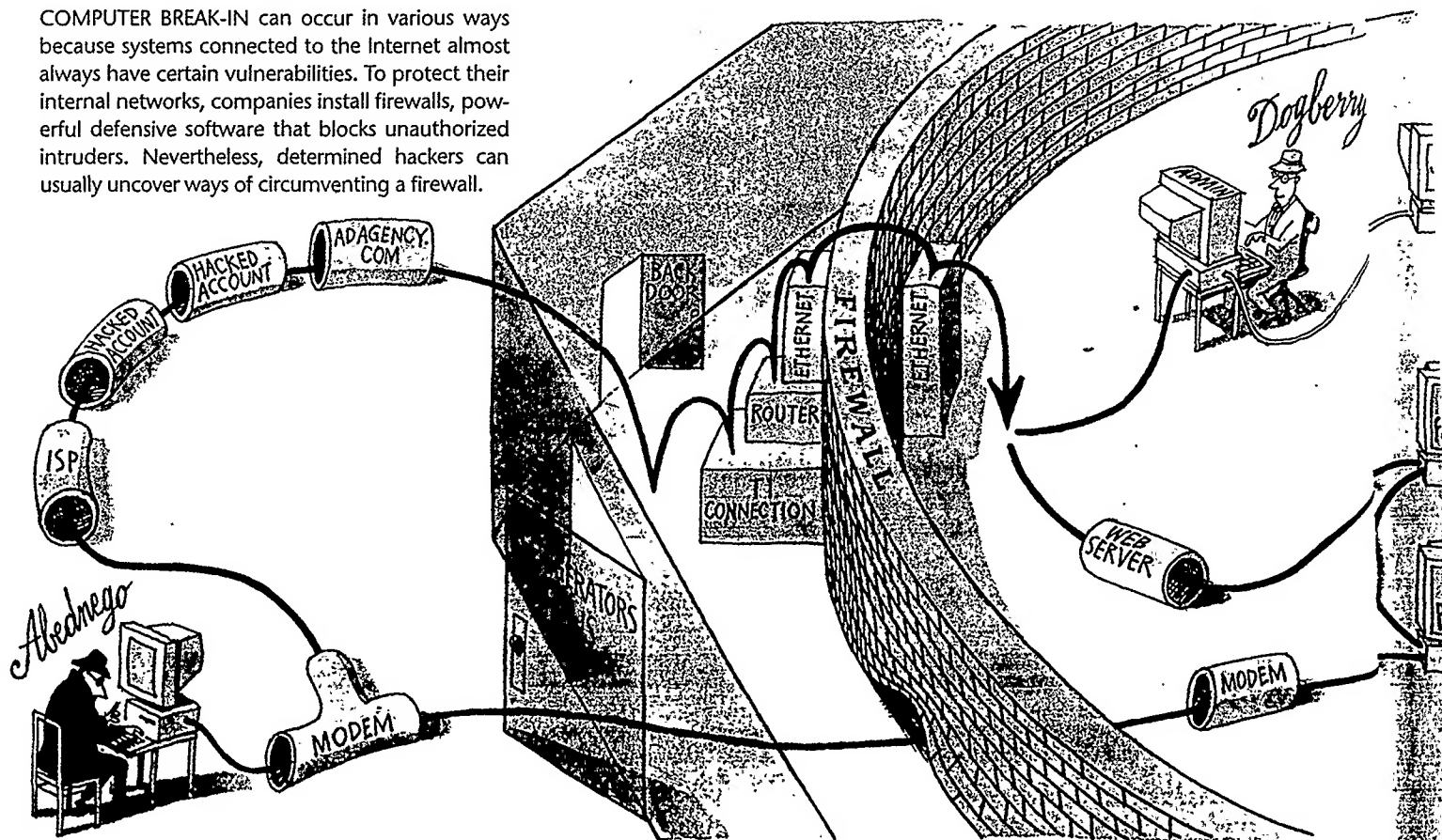


Editors' note: This fictionalized account is a composite of many incidents that have occurred, at one time or another, somewhere in cyberspace. The names of people and other details have been changed, but the technologies and software do exist. Some of the events reported here are drawn from the firsthand experiences of the author, who is known both in the computer underground and among security experts for her hacking skills and for her countless battles against hackers. SCIENTIFIC AMERICAN thanks Rt66 Internet, an Internet service provider in Albuquerque, N.M., which tested much of the software and hardware described in this article to verify the technologies involved.

Sitting at his home computer one night, Abednego logs on to the Internet Relay Chat, the cyberspace equivalent of CB radio. After connecting to a channel devoted to the powerful Unix operating system, he watches as the on-line habitués meet to make contacts, build alliances and exchange knowledge. The scene is reminiscent of the cantina in *Star Wars*.

Eager to interject himself into the conversation—and to impress others—Abednego waits for someone to ask a simple-minded question so that he can incite a “flame war,” in which the participants begin hurling venomous insults at

COMPUTER BREAK-IN can occur in various ways because systems connected to the Internet almost always have certain vulnerabilities. To protect their internal networks, companies install firewalls, powerful defensive software that blocks unauthorized intruders. Nevertheless, determined hackers can usually uncover ways of circumventing a firewall.



and How They Are Caught

one another. Just then, someone with the handle "Dogberry" asks about writing a device driver for a home weather station. Abednego seizes his chance. "RTFM" is his response. It stands for "read the f—g manual."

Others begin launching nasty insults, but not at Dogberry. Apparently, the question was far more complex than Abednego had realized. Dogberry's terse put-down—"Newbie!"—fans the flames. Humiliated, Abednego vows revenge.

Using the "finger" command on Internet Relay Chat, Abednego obtains the e-mail address "Dogberry@refrigerus.com." Abednego figures that if Dogberry is such a Unix whiz, he might be manager of the computers at refrigerus.com. To confirm his hunch, Abednego uses "telnet" to connect to the mail server of that computer. He then issues the command "expn root@refrigerus.com" and learns that Dogberry is indeed the head system administrator there.

His interest sufficiently piqued, Abednego runs Strobe, a program that attempts to connect with each of the thousands of virtual ports on refrigerus.com. The scanner will meticulously record responses from any daemons, which are automatic utility programs, such as those that handle e-mail. Abednego knows that each port might be an open door—or a door that he might be able to break down—if he can take advantage of some flaw in its daemon.

But Strobe hits a wall—Dogberry's firewall, to be exact. That powerful defensive software intercepts each incoming packet of data, reads its TCP/IP (transmission control protocol/Internet Protocol) header and determines with which port it seeks to connect. The firewall compares this request with its own strict rules of access. In this case, refrigerus.com has decreed that there should be only one response to Abednego's scanner.

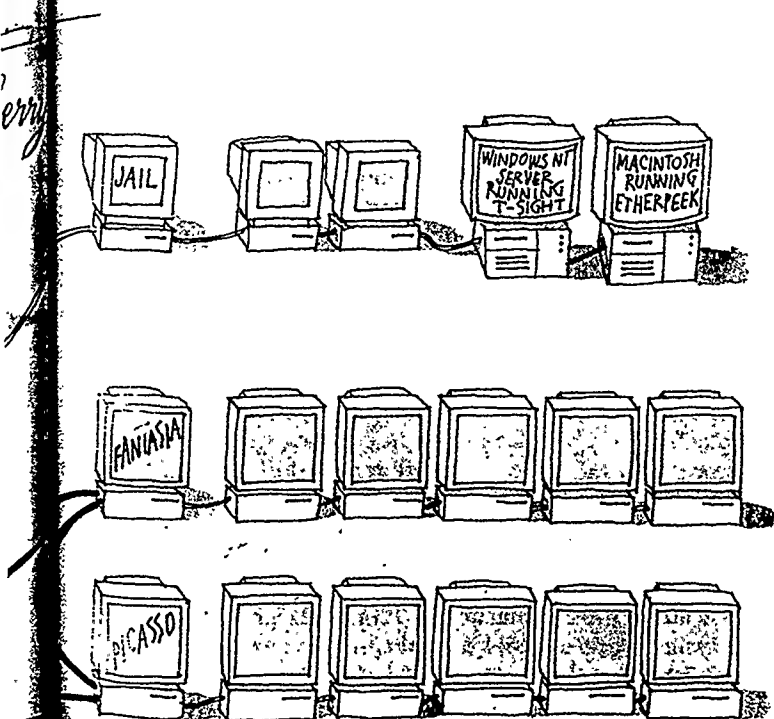
From that instant on, a program on refrigerus.com sends a blitzkrieg of meaningless data, including random alphanumeric characters, back to Abednego, overwhelming his home PC. Meanwhile another daemon sends e-mail to Abednego's Internet service provider (ISP), complaining that someone is attempting to break into refrigerus.com. Within minutes, the ISP closes Abednego's account for suspicion of computer crime.

Although Abednego is caught off guard—many ISPs would not have taken such a strong measure so quickly—the setback is minor. The closed account was only one of several he had created after breaking into that ISP. But the termination of the account at that particular moment causes him to be dumped from Internet Relay Chat in the midst of the flames against him. To the others on-line, it looks as if Abednego has been unceremoniously booted or, worse, that he has fled for cover.

Abednego burns for retaliation. His next step is to try a stealth port scanner. Such programs exploit the way in which IP transmissions work. When one computer wishes to talk to another, it must first transmit a short message packet containing a SYN (synchronize) flag. The header of the packet also contains other important information, such as the IP address of both the source and destination. In response, the recipient daemon sends back a packet that contains an ACK (to acknowledge the received packet), a SYN and a sequence number that is used to coordinate the upcoming transmission. When the first computer gets the return ACK/SYN, it issues an ACK of its own to confirm that all is ready, thus completing a three-way handshake. Then, and only then, can the sender computer begin transmitting its message using the sequence number provided. At the end of the communication, the sender transmits a packet with a FIN (finish) flag, and the receiver returns an ACK to signal that it is aware the transmission has ended.

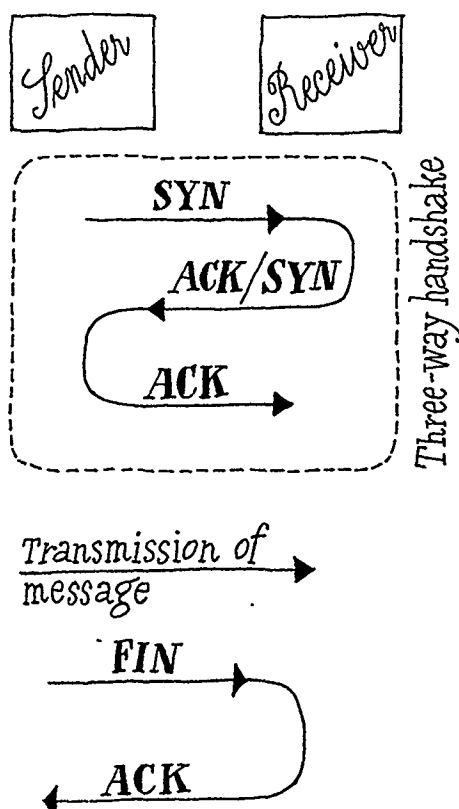
Abednego knows that a stealth port scanner can take advantage of this process by sending just premature FIN packets to each port on a computer. Typically if a port is open, the recipient daemon will not send any response. If a port is closed, however, the computer will return an RST (reset) packet. But because this computer does not truly recognize a connection until it has completed the opening three-way handshake, it does not record the transmission in its logs. Thus, a FIN scanner can probe a computer in relative secrecy, without ever having opened any official connections. (Yet, as Abednego will soon learn, there is enough information in even one FIN packet to establish a sender's identity.)

Abednego surfs the Internet to search for an advanced

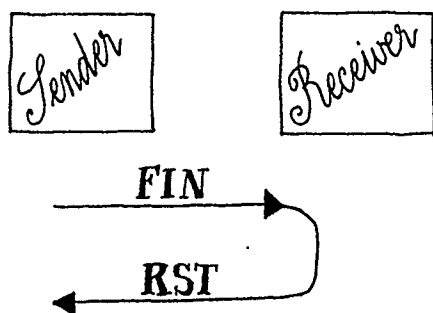


ALL ILLUSTRATIONS BY DOUGAN PETRIC

NORMAL TRANSMISSION



STEALTH SCANNER HACKED TRANSMISSION



INTERNET TRANSMISSIONS follow certain rigid protocols. Normally, the sender first transmits an introductory message packet containing a SYN flag to synchronize the upcoming communication (*top*). The receiver then returns an ACK, which acknowledges the request, and a SYN. After obtaining this information, the sender transmits an ACK, which completes the necessary three-way handshake. Only then can the sender dispatch the message itself. When finished, he issues a FIN flag, and the receiver returns an ACK, which officially closes the correspondence. A hacker can circumvent the process by sending just a premature FIN, from which the hapless receiver might return an RST, or reset, packet (*bottom*). The response—or lack of one—reveals certain information about the receiver, but because no three-way handshake was ever completed, the transmission is not recorded in the receiver's logs. The hacker can thus probe an unwitting computer in relative secrecy.

stealth port scanner and finds one at an underground Web site. The program, like most other hacker tools, is written in the C computer language. Abednego struggles to compile, or convert, the scanner from C into a form that can be executed on his home PC, which runs on Linux, one of the many variants of Unix.

Abednego's difficulty in converting the software is not unusual because of the many peculiarities of the different flavors of Unix. And Abednego, like many hackers, did not formally study computer science. In fact, also like most hackers, Abednego never learned to program because he never had to: almost any software a computer criminal might ever want is available on the Internet, already written and free for the taking—as long as the hacker knows how to compile it (or has cohorts who do).

The young Dogberry had taken a different path. After befriending a technician at a local ISP, he learned how to administer a network. Before long, Dogberry and the technician were playing computer break-in and defense games. The payoff came when they used the results to help the ISP improve its security. With that success, Dogberry was hired by the ISP to work part-time while he pursued his computer science degrees.

Thus, when Abednego decided to take on Dogberry, he had already made his first mistake. Dogberry is a white-hat (or nonmalicious) hacker and a veteran of many cyberbattles.

Casing the Joint

As dawn breaks, Abednego has finally finished compiling the code and is ready to deploy it. Within minutes, the FIN scanner has given him a snapshot of the services that refrigerator.com offers to those coming only from an approved IP address. Two that draw his attention are a secure-shell daemon, which is a way to make encrypted Internet connections, and a Web server.

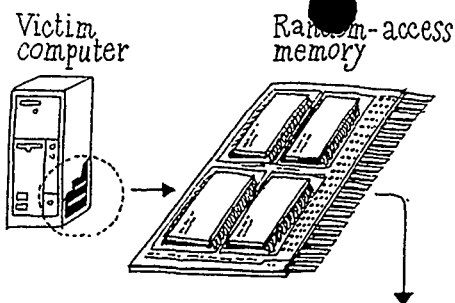
Then Abednego's heart skips a beat. An unusual port number, 31,659, has also turned up on his FIN scan. Could another intruder have preceded him and left a back door, a secret passage to enter the system undetected?

The beeping of a pager jolts Dogberry out of a deep sleep. EtherPeek, a sniffer program installed on the refrigerator.com network, has detected the port scan. Dogberry rushes into the office to watch for more attacks from the console of his administrative computer. His best defensive programs run only from that machine and only for someone who is physically there, so that they cannot be tampered with remotely by an attacker.

Meanwhile, despite the powerful temptation of that 31,659 daemon, Abednego leaves the chase for now. Something—his hacker intuition—tells him that he should return on another night. So by the time Dogberry arrives at work, he sees no more activity.

Curious about the unusual attack, though, Dogberry begins analyzing his computer logs and is able to retrieve the source address from the hacker's FIN packets. With this information, he sends an e-mail to Abednego's ISP, advising the firm of the break-in attempt and asking for details about Abednego's account. But the system administrator at the ISP rejects Dogberry's request, citing a confidentiality policy, because merely running a scanner breaks no law.

Three evenings later Abednego resumes the hunt. But when his computer dials into his account, he finds out his



Shadow
password
file

```
root: I4.yoNjA4co5.:10386:-----1
diag:qiy2qsTuLlgoU:10386:-----1
daemon: oyFZlB2Jln5dM:10386:-----1
bin:ATL.Y7EcTCjxA:10386:-----1
uucp:shoqKi.sKcMls:10386:-----1
nobody: vt233NHYYFD4:10386:-----1
rastro: wDUF2ZhmTtJao:10386:-----1
gitano:B6YU/a9yvUs3:10390:-----1
hsimprson: ABDNGKQdwamIE:10392:-----1
```



CORE DUMP can be used by hackers to obtain secret information. When a program running on a computer fails, it sometimes causes the machine to dump, or flush, the contents of a part of its random-access memory (RAM). A hacker can force such an incident to occur so that he can then sift through the discarded data, which might contain important information, such as the passwords for specific accounts on the network system.

password is no longer good. Upset, he phones the ISP and learns that his account has been shut down because of the FIN scan. Yet this turn of events does little to discourage him. In fact, he is now even more determined.

With his credit-card number and a telephone call to a different ISP, he is back on-line within minutes. This time, though, Abednego is more cautious. Through this new account, he logs on to one of his hacked accounts at yet another ISP. Once there, he gives the simple command "whois refrigerus.com." The response tells him the domain name belongs to Refrigerators R Us, a national retail chain.

Next, Abednego tries to log on to refrigerus.com through the 31,659 port by issuing the command "telnet refrigerus.com 31,659." The response is, "You lamer! Did you really think this was a back door?!" Then the 31,659 daemon attempts to crash his PC by sending corrupt packets, while e-mailing the system administrator at Abednego's hacked ISP that someone has attempted to commit a computer crime. Within minutes, Abednego's connection dies.

More determined, Abednego now tries to tiptoe around the firewall instead of forcing his way through it. Using yet another of his many hacked accounts, he begins by attempting to catalogue the computers that belong to refrigerus.com. To obtain this information, he tries "nslookup," which initiates a search throughout the Internet for master databases containing directories of IP addresses.

But "nslookup" is unable to retrieve anything useful. Dogberry must have set up the refrigerus.com network so that all packets destined for any of its internal addresses are sent first to a name-server program, which then directs them to the appropriate computers within the network. This process hinders anyone on the outside from learning details about the computers inside the firewall.

Abednego's next attempt is through an IP address scanner. First, he converts refrigerus.com to a numerical address, using "nslookup." With that number as a starting place, he scans the IP addresses above and below it. He discovers some 50 Internet host computers. Although there is no guarantee that these belong to refrigerus.com, Abednego knows it is a good bet they do.

Next, he uses "whois" to ask whether any other domain names are registered to Refrigerators R Us. The response reveals another: refrigeratorz.com, with an address that is numerically distant from that of refrigerus.com. The IP address scanner soon reveals five additional Internet hosts on numbers nearby refrigeratorz.com.

HACKER LEXICON

Abednego—A biblical Israelite held in Babylonian captivity who walked through a wall of fire and survived.

ACK—See illustration on page 100.

Back door—A secret way to enter a computer that bypasses normal security procedures.

Buffer overflow—See illustration on page 102.

Core dump—See illustration on this page.

Daemon—An automatic utility program that runs in the background of a computer.

Dogberry—The constable in William Shakespeare's *Much Ado about Nothing*.

FIN—See illustration on page 100.

Firewall—Defensive software that protects a computer system from unauthorized intruders.

FTP—File transfer protocol, a common protocol and program used to transfer files over the Internet.

IP—Internet Protocol, a low-level convention that allows computers to move packets of data across the Internet.

Internet Relay Chat—An on-line chat service.

ISP—Internet service provider.

Keystroke logger—A program that records everything a user types at a keyboard.

Port—A connection, or channel, into a computer.

RAM—Random-access memory.

Root—The highest level of access to a Unix computer.

Root kit—A program that hackers implant in a victim computer to hide their nefarious activities.

RST—See illustration on page 100.

Scanner—A program that attempts to learn about the weaknesses of a victim computer by repeatedly probing it with requests for information.

Sequence number—A number used to coordinate an upcoming IP transmission.

Shell—A software layer that provides the interface between a user and the operating system of a computer.

Sniffer—A program that records computer and network activity.

Spoof—See illustration on page 104.

SYN—See illustration on page 100.

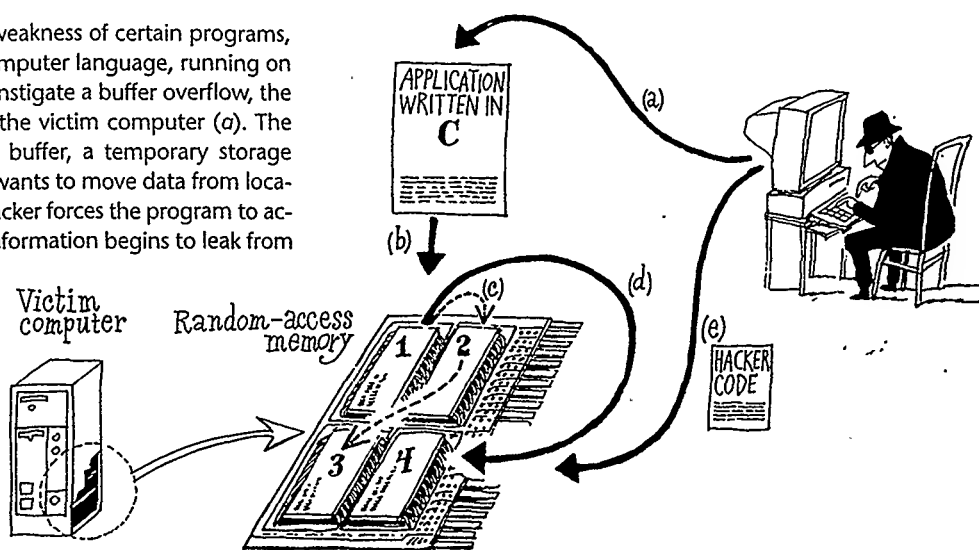
TCP—Transmission control protocol, the set of communications conventions that enable the sending and receiving of data over the Internet.

Telnet—A Unix command that enables a user to log on to a computer from a remote location.

Unix—A powerful operating system.

War dialer—A program that will automatically dial a range of telephone numbers.

BUFFER OVERFLOW is an exploitable weakness of certain programs, for example, those written in the C computer language, running on an operating system such as Unix. To instigate a buffer overflow, the hacker might run a C application on the victim computer (a). The program begins to write data into a buffer, a temporary storage space in memory (b). The application wants to move data from location 1 into 2, then into 3 (c). But the hacker forces the program to accept excess data so that some of the information begins to leak from location 1 into 4 (d). The hacker can take advantage of the overflow to insert his own code (e), which has been written to help him gain high-level privileges to the victim computer.



As a safety precaution, Abednego telnets from his current hacked account into another of his pirated accounts. He then telnets from that location to yet another account that he has hacked, remotely logging on to it in preparation to run more FIN port scans. The extra steps will force anyone in law enforcement to obtain search warrants for three companies, encumbering the process.

He also decides to hide on the third hacked computer under the protection of a root kit, a Trojan horse program that, despite its harmless appearance, will automatically delete any evidence of his actions from the logs used to detect abnormal activities. The software also defeats other programs that seek to detect alterations to system files on that computer. A root kit will even prevent people from determining that he is logged on and running programs.

From this safe perch, Abednego scans one after another of the Internet host computers at *refrigerus.com* and *refrigeratorz.com*. The FIN scanner slips straight through the firewall to every one of them. The activity, though, is detected by the EtherPeek sniffer, which again sets off Dogberry's beeper.

A haggard Dogberry, after rushing to work, soon identifies the origin of the FIN scans and alerts the system administrator at Abednego's third hacked account. But the root kit has done its job, hiding Abednego from mystified computer operators there. Abednego boldly continues, switching from the stealth scanner to Strobe in hopes of finding an IP address that the firewall does not protect.

He succeeds only in having the *refrigerus.com* firewall unleash a flood of meaningless data. The sudden load finally convinces the system administrator at Abednego's hacked account that there really must be an attacker at work. She takes the drastic step of cutting the entire system off from the Internet. As his connection fizzles, Abednego realizes there is no elegant way around the firewall.

Finding a Workaholic

For each of the several dozen Internet hosts at Refrigerators R Us, Abednego guesses that there are probably many other desktop computers sitting quietly in employees' cubicles and offices. What are the chances, he muses a few nights later, that somewhere among those hundreds of

users are workaholics who circumvent the company firewall by phoning into their computers from their homes to perform late-night tasks? It's simple, really, for someone to buy a modem, connect it to a computer at work and plug a phone line into it before leaving for the day.

Knowing that almost every large corporation has at least one unauthorized modem on its network, Abednego sets up ShokDial, a war-dialer program that will call each of the extensions to the phone system at Refrigerators R Us as well as other numbers within that exchange. At the headquarters building of the company, the night watchman hears the ringing of one office phone after another but thinks nothing of it.

Then, at 2:57 A.M., the war dialer pulls up a modem, and Abednego is greeted with the log-on screen of a Silicon Graphics computer: "Refrigerators R Us Marketing Department. Irix 6.3." Great, Abednego thinks, because Irix is a type of Unix, which means he has found a potent portal into Dogberry's world.

Abednego's next strategy is to try brute force, using a program that will repeatedly dial the Irix box and guess passwords for root, a top-level account (usually reserved for system administrators) from which he can run any command and access all information on that particular computer. He is hoping that the owner of the Irix machine, like many harried workaholics, has negligently allowed remote access to a root account.

The password guesser starts with common words and names and from there tries less obvious choices. The slow, painstaking process can take months, even years, as the program exhausts every word in an unabridged dictionary, all names in an encyclopedia and each entry from a local phone book. But Abednego gets lucky. Around 5 A.M. he learns that the password is simply "nancy."

"Yes!" Abednego shouts as he logs on to a root shell, from which he can then issue other commands to run on that machine. Next, he secures his beachhead, using FTP (file transfer protocol) to plant a root kit and sniffer onto his latest victim. He sets the program to capture and record everything typed in at the console (a process known as keystroke logging), as well as any log-on sessions from the network. The sniffer will hide this information in an innocuously named file right there on the unwitting host. Within min-

utes, Abednego's root kit has even set up an additional way to log on: user name "revenge," password "DiEdOgB."

Abednego's last deed that morning is simple. To find the Internet address of the hijacked box, he types the "who" command, and his computer shows user "revenge" logged on to picasso.refrigeratorz.com. Later that morning the rightful owner of picasso logs on and sees no indication that someone has usurped control of her computer. Abednego's root kit is doing its job.

For Dogberry's part, all that his log reveals is an early-morning attempt to enter refrigeratorz.com from the Internet. Remembering the recent FIN scans, Dogberry is troubled by this latest incident, but he has too little information to take action.

Two nights later Abednego dials in and connects with picasso to view his logs. To his dismay, he sees that information on the internal network traffic has been encrypted. But the keystroke logger of his sniffer has recorded that someone on picasso had logged on to another computer named fantasia. Abednego now owns a user name and password for fantasia. Open sesame!

Abednego discovers that the computer is a SPARC workstation used for rendering animated sequences, perhaps for television ads. Because the box is probably a server used by many other computers, Abednego begins hunting for a password file, hoping that some of the passwords he finds will also work on other machines inside the company network.

He locates the file but discovers only "x" characters where the encrypted passwords should have been. Apparently, the information he seeks is hidden elsewhere in a shadowed file. Smiling to himself, Abednego runs the FTP program and tricks it into crashing. Bingo, core dump!

Fantasia is forced to flush a part of its random-access memory (RAM). Fortunately for Abednego, the discarded information—a record of what was being held in that RAM sector at that moment—ends up in the user directory.

The legitimate purpose of a core dump is to enable programmers to perform an autopsy on the digital remains in search of clues to a program's failure. But, as Abednego well knows, a core dump has other uses. A shadowed password system sometimes places encrypted passwords in RAM. When a person logs on, the computer does a one-way encryption of the password the user attempts and compares that with the encrypted password from the shadowed file. If the two match, the person gets in.

The shadowed password file that Abednego is able to retrieve from the core dump on fantasia is encrypted, so he starts running his password cracker. The program could be busy for the next few days, maybe even weeks.

Too impatient to wait, Abednego is already working on his next maneuver—exploiting a common vulnerability of Unix. When a program running on that operating system pours excessive data into a buffer (a temporary storage space in memory), the information will leak, infiltrating other areas of the computer's memory.

Abednego takes advantage of the buffer overflow by using it to insinuate his own code into the SPARC. The added software helps him cre-

ate a root shell, from which he can then run other commands and programs. Pleased with his latest effort, Abednego next installs a root kit and sniffer. Because the kit will hide evidence of his activities only from the time when the program was activated, Abednego must mop up by deleting previous actions of his busy night.

One task remains. Is there anyone who is allowed to log on to fantasia from the Internet? Abednego types the "last" command to display records of connections people may have made to fantasia. He perks up as he sees that user names vangogh and nancy have recently entered fantasia from the Internet through the domain "adagency.com," which lies outside the Refrigerators R Us firewall.

Abednego can hardly fall asleep that morning. His adrenaline flowing, he buzzes with the knowledge that he will soon "own" Refrigerators R Us.

Closing in for the Kill

The next evening Abednego makes short work of breaking into adagency.com. At first he uses IP spoofing to trick that computer into recording a false IP address for his location. By probing adagency.com with SYN packets to elicit ACK/SYN responses with an assortment of sequence numbers, Abednego's program is able to tease out a pattern from which he can then guess the next sequence numbers and use that knowledge to fake his origin. Abednego quickly installs a sniffer on adagency.com and uses a secure-shell program to create an encrypted connection for logging on to fantasia.

From that computer, he types the "netstat" command to view tables of active connections within the network. He discovers a computer that he had missed in his earlier search. Its name, "admin.refrigerus.com," is promising. Could that be from where Dogberry oversees the system?

Meanwhile every time Abednego's PC cracks yet another combination of user name and password, he tries it on various refrigerus.com computers. But none of them works anywhere except on fantasia, which he already "owns."

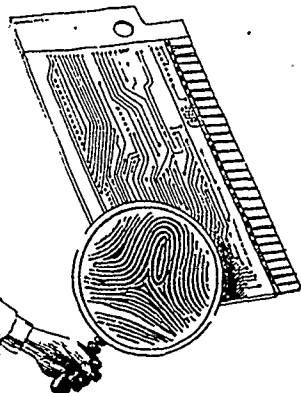
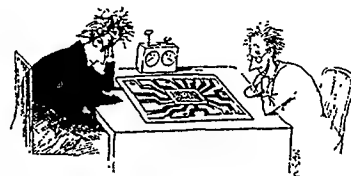
Then Abednego hits the jackpot. Twice.

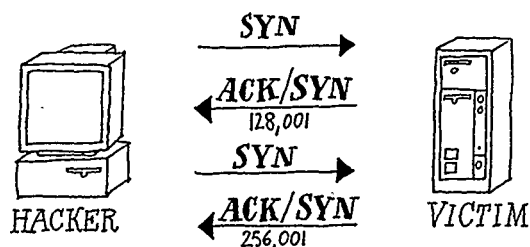
On fantasia he captures keystrokes made by vangogh as that user updated the company's Web server. Now Abednego has the password he needs to hack the Refrigerators R Us Web site. In addition, his sniffer on picasso reveals that someone, Nancy, has dialed into that computer and from there used a back door to log on to a root account, hidden by her root kit, at admin.refrigerus.com.

He slips right behind Nancy into admin.refrigerus.com. Using the root account there, he tries logging on to one Refrigerators R Us computer after another. Dogberry, however, has been exceedingly careful. On the Refrigerators R Us network, even root privileges do not allow someone to enter other computers without providing new passwords.

Only briefly distracted, he turns his attention back to the Web server and logs on to it using his recently acquired password. From his home PC, he then uploads a new version of the Refrigerators R Us home page that he had put together in anticipation of this day.

Back at Refrigerators R Us, Dogberry is working late, poring over his logs. It seems the marketing people have been





IP SPOOFING enables a hacker to fake his identity. The hacker first probes his victim by sending multiple SYN packets [see illustration on page 100] to obtain ACK/SYN messages with sequence numbers (left). From these responses, the hacker is able to uncover a pattern. In this example, he notices that the numbers increase by

getting an unusual number of connections from adagency.com. Tomorrow he will ask those folks exactly what is going on. He will also call the system administrator at adagency.com, a colleague whom he once helped to install some new system software.

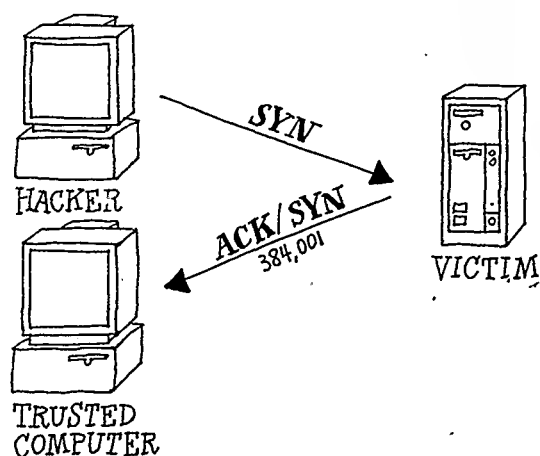
Just as Dogberry is about to head home for the night, the phone in his office rings. An angry customer complains that Refrigerators R Us's Web site features a pornographic movie with a refrigerator as a prop. After bringing up and viewing the defaced Web page, Dogberry moves quickly to sever the umbilical Ethernet cable that connects the company network to the Internet.

Abednego is enraged when his obscene masterpiece is taken down so quickly. But he is also worried that he has left too much evidence behind, so he returns using the dial-up line to picasso—an entryway that is still unknown to Dogberry. He buys time by reformatting completely the administrative computer's hard disk, which shuts down the company network, temporarily thwarting Dogberry's efforts to gather details of the attack.

Dogberry rushes to the administrative computer with hopes to reboot it from the console, but he is too late. Dogberry must now rebuild the software on that computer from scratch. (Unbeknownst to Abednego, though, the EtherPeek sniffer running on a nearby Macintosh has also been making logs.)

Abednego, still peeved about the Web site, has one final act that night: he unleashes a flood of data packets against refrigerus.com. Soon Dogberry gets a frantic call from a company salesperson who, using her laptop PC and a phone line in her hotel room, wants to retrieve her important e-mail but has been unable to connect to the mail server at Refrigerators R Us.

The next morning an exhausted Dogberry begs the vice president of technology at Refrigerators R Us for an okay to wipe clean every computer in the network, reinstall every program and change all passwords. But the extensive—though prudent—measure would require shutting the system down for days, and the vice president denies the request.



an increment of 128,000. Next, the hacker sends a SYN that impersonates another computer that the victim trusts. The victim then transmits an ACK/SYN to this authorized host (center). Although the hacker does not receive this particular response, he can nonetheless continue the correspondence as if he had: he is

At this point, Abednego's malicious and destructive exploits have gone well past the legal bounds for hacking. But the FBI, which is severely understaffed, has been busy investigating some recent break-ins at several army and navy computer systems around the U.S. Dogberry will have to gather more evidence himself.

Because the attacker remained on the system even after it had been physically disconnected from the Internet, Dogberry suspects there must be a contraband modem somewhere in the building. He runs his own war dialer and discovers the culprit. He will soon have words with the marketing department!

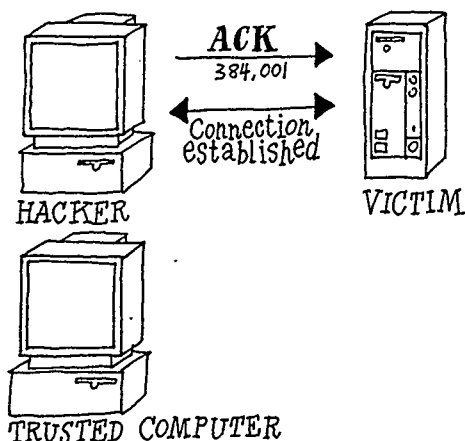
Dogberry then reloads a clean version of his main administrative computer. Next, on a Windows NT server that Dogberry knows has not been tampered with, he deploys T-sight, an advanced antihacker program that can monitor every machine on the company network.

Last, Dogberry sets his trap. T-sight will watch for the attacker's next connection to admin.refrigerus.com and will redirect the intruder into a "jail" computer. Once there, the culprit can be monitored and traced. To keep the unsuspecting person distracted, Dogberry enlists a team of programmers to make the jail look like an accounting system, complete with the tempting bait of fake financial data.

Pride Goeth Before...

Just two nights later Dogberry is standing watch at 8:17 P.M. when he discovers someone once again entering admin.refrigerus.com. It is Abednego. Why has he returned so soon? Abednego was exhilarated when he learned that his pornographic Web site had become the talk of the hacker underground. He had even rated a brief mention on CNN. The publicity and his hubris were a potent combination, making Abednego feel invincible.

In fact, tonight he has brazenly reentered Refrigerators R Us without his customary caution. After dialing into a guest account on an ISP, he telnetted directly to adagency.com to gain faster access to fantasia's back door.



sues an ACK message with the correct predicted sequence number, thus establishing a connection between his computer and the victim (right). The hacker can then transmit information that the victim will assume is benign because of the mistaken belief that it is coming from the trusted host computer.

From admin.refrigerus.com, Abednego is lured to the jail by T-sight. He can hardly control his excitement as he begins sifting through what he believes are sensitive financial records.

Dogberry, too, is busy. Quickly analyzing data from T-sight, he obtains Abednego's root password on fantasia—DiEd0gB—and is able to trace the intruder back to adagency.com. Dogberry calls the pager of the system administrator there. She has already left work, but she phones Dogberry from a restaurant to help him continue tracking Abednego.

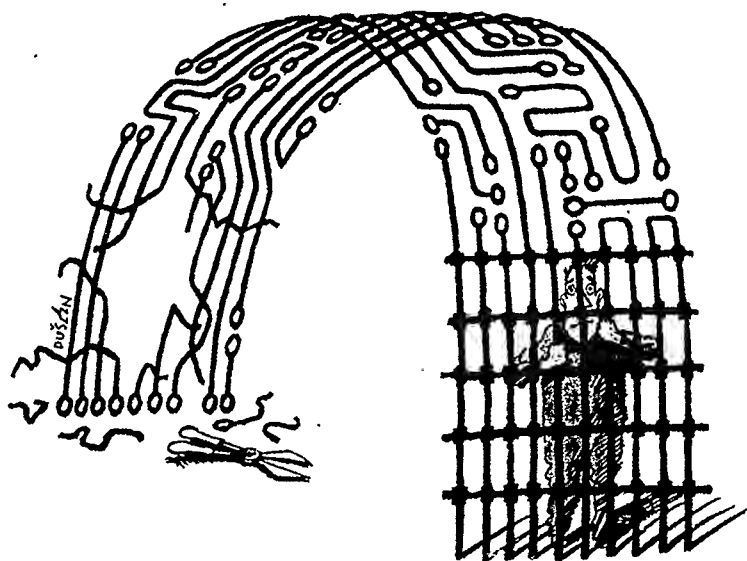
So while Abednego is retrieving a huge file containing bogus credit-card numbers, Dogberry installs a sniffer on adagency.com. He is even able to sneak unnoticed into Abednego's account on that computer by typing DiEd0gB, because Abednego has lazily used the same password for all his root kits. Then, just minutes before Abednego finishes his download and logs off, Dogberry succeeds in tracking the trail of the plundered credit-card file back to Abednego's dial-up account at the ISP.

The information Dogberry has obtained is enough to bring in the FBI, which contacts the ISP the next day to ob-

tain Abednego's identity from the company's phone logs. With enough evidence in hand, including the Macintosh's high-quality EtherPeek logs, the U.S. Attorney's office approves a search warrant.

Soon after, FBI agents raid Abednego's apartment and confiscate his PC. The hard disk of the computer will reveal all. Abednego had taken the precaution of erasing incriminating files from his PC after each night's escapade. He is chagrined to learn that the FBI can extract that information from his hard drive even after it had been erased and overwritten several times. Soon a laboratory has recovered details of his past trespasses, including the time he romped through the computer system at a major banking institution in the Northeast.

The megabytes of incriminating data provide the smoking gun necessary to indict Abednego on multiple counts of computer fraud. Unfortunately for him, the trial judge assigned to his case is known for her tough stance on cyber-crime. Taking his attorney's advice, Abednego wisely accepts a plea bargain even though, like many hackers who have crossed the line, he insists that his activities—which, for Refrigerators R Us alone, resulted in thousands of dollars in damages—were just playful pranks. Abednego is currently serving a two-year sentence in a federal prison. ■



The Author

CAROLYN P. MEINEL is addicted to the frontiers of technology. She is the author of *The Happy Hacker: A Guide to (Mostly) Harmless Computer Hacking* (American Eagle Publications, 1998) and the president of Happy Hacker, Inc., a nonprofit organization devoted to teaching people how to hack responsibly and legally. The group runs a hacker wargame on its World Wide Web site (<http://www.happyhacker.org>). Meinel holds an M.S. in industrial engineering from the University of Arizona. She is currently working on a book with Jason Chapman, recounting her many adventures battling hackers. Meinel wishes to acknowledge the help of Michael and Diana Neuman, Damian Bates, Emilio Gomez, Mahboud Zabetian and Mark Schmitz in researching this manuscript.

Further Reading

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Additional information can be obtained at <http://www.geek-girl.com/bugtraq>, <http://ntbugtraq.ntadvice.com>, <http://rootshell.com>, <http://www.infowar.com>, <http://www.antonline.com> and <http://www.happyhacker.org> on the World Wide Web.
Details of EtherPeek and T-sight can be obtained at <http://www.aggroup.com> and <http://www.engarde.com>, respectively.

- 1 -

FEDERAL BUREAU OF INVESTIGATION

Date of transcription 10/22/98

Source, who is not in a position to testify, provided the following information:

On October 13, 1998 Federal Bureau of Investigation (FBI) Special Agent (SA) [redacted] received information from Source (via electronic mail) regarding the recent computer hack of the New York Times web page. Source advised that [redacted]

b6
b7C
b7DInvestigation on 10/13/98 at [redacted]

File # [redacted]

Date dictated

10/22/98

NOV 18 1998

by SA [redacted]

This document contains neither recommendations nor conclusions of the FBI. It is the property of the FBI and is loaned to your agency; it and its contents are not to be distributed outside your agency.

300

02.302

b3
b6
b7C
b7D
b7E

- 1 -

FEDERAL BUREAU OF INVESTIGATION

Date of transcription 10/21/98

Source, who is not in a position to testify, provided the following information:

On October 11, 1998 Federal Bureau of Investigation (FBI) Special Agent (SA) [redacted] received a series of electronic mail (e-mail) messages from Source regarding the recent computer hack of the New York Times web page. These messages indicate [redacted]

[redacted] The information contained in the e-mail messages is that [redacted]

[redacted]

b6
b7C
b7D

[redacted]
Investigation on 10/11/98 at [redacted] (telephonically)

File # [redacted] Date dictated 10/21/98

by SA [redacted]

b3
b6
b7C
b7D
b7E

- 1 -

FEDERAL BUREAU OF INVESTIGATION

Date of transcription 11/2/98

On October 22, 1998 Federal Bureau of Investigation
(FBI) Special Agent (SA) [redacted] received an
electronic mail (e-mail) message from [redacted]

[redacted] PROTECT IDENTITY regarding [redacted]

b6
b7C
b7D
b7E

[redacted] The reply e-mail message from [redacted]
read as follows:

b6
b7C
b7D

Investigation on 10/22/98 at [redacted] (telephonically)

File # [redacted] Date dictated 11/2/98

by SA [redacted]

b3
b6
b7C
b7E

[REDACTED]

b3
b7E

Continuation of FD-302 of [REDACTED] (PROTECT IDENTITY) , On 10/22/98 , Page 4

[REDACTED]

b6
b7C
b7D
b7E

Additionally, [REDACTED] advised that he currently works as
a [REDACTED] for [REDACTED]
with [REDACTED] in the [REDACTED]
area.

b6
b7C
b7D

[REDACTED]

b3
b7E

Continuation of FD-302 of [REDACTED] (PROTECT IDENTITY), On 10/22/98, Page 5

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[REDACTED] provided SA [REDACTED] with his pager number [REDACTED]
[REDACTED] and advised that he uses an internet service provider
by the name of [REDACTED]

SEARCHED
SERIALIZED

NOV 16 1998

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OCT 14 1998

FBI - NEW YORK



INVESTIGATIVE INFORMATION REQUEST FORM

FBI, Butte Information Technology Center
 400 North Main Street, Room #115
 Butte, Montana 59701

- Commercial Telephone (406) 782-2304
 ► FTS: (406) 782-2304 FAX: (406) 782-9504, 782-9507 & 782-7418
 ► Secure FAX & STU III: (406) 782-2304, Ext. 26

TO: FBI, BUTTE INFORMATION TECHNOLOGY CENTER

Date: 9-30-98Forfeiture/Seizure Related: ☐ Type of Request: ☒ FAX ☐ Telex ☐ MailRequester: SA Phone #: 212-384-3887 FAX #: 212-384-4660Office/RA: New York 3187 Precedence: ☒ ROUTINE ☐ IMMEDIATEResponse: ☐ Telex ☐ Mail

UCFN

(Emergency/Crisis Situation)

SEARCH CRITERIA (Attach additional sheets if necessary)

Name - Last: First: Middle: Alias: Sex: M DOB1: DOB2: SSAN1: SSAN2: Spouse: Fugitive: ☐ Yes ☐ No Driver's License #: State:

RESIDENCE (LAST KNOWN)

Street Address: City/State: Zip: Phone:

BUSINESS

Business Name: Street Address: City/State: Zip: Phone: Business ID#:

CHECK DESIRED SEARCH PARAMETERS (Please check only those that are needed)

- ☒ 1. Specific Information Desired Current Address (believed to be)
- ☒ 2. Determine All Individuals Associated with Social Security Number(s)
- ☒ 3. Report Validity of Social Security Number
- ☐ 4. Determine Who is Associated with Telephone Number(s)
- ☐ 5. Determine Address of Business/Person (U.S. , State(s))
- ☐ 6. Determine Property Owned by Individual (U.S. , State(s))
- ☐ 7. Determine Who Owns Property Listed Above
- ☒ 8. Determine Who Resides at Address Listed Above DOB(-)
- ☒ 9. Determine Financial Background Info, i.e., Bankruptcy, Judgments, Liens, UCC filings, or Lawsuits
- ☒ 10. Determine Corporate Business Info, i.e., Officer, Director, Registered Agent (Person/Business)
- ☐ 11. Customs Border Crossings / Subject query / I-94 info (circle one)
- ☒ 12. Federal Prison Inmate Information
- ☐ 13. Telemarketing Complaints

Reply From: FBI, Butte Information Technology Center (BITC)

Return Reply To:

SAC, Attention:

Based on search criteria, marked records are attached:

- ☒ Positive Identification Records
- ☐ Other Peripheral Information

- ☐ Brief Synopsis of Information Found
- ☐ No Information Found

(12/31/1995)

FEDERAL BUREAU OF INVESTIGATION

Precedence: ROUTINE

Date: 11/04/1998

To: New York

Attn: SA [REDACTED]

From: [REDACTED]

Security Squad

Contact: SA [REDACTED]

DA
EB
Approved By: [REDACTED]

Drafted By: [REDACTED]

Case ID #: [REDACTED] (Pending) [REDACTED]

Title: HACKERS FOR GIRLIES (HFG), ET AL;
NEW YORK TIMES - VICTIM;
CITA - INTRUSION;

Synopsis: Information received regarding web page computer intrusion.

Enclosures: 1) Two copies of [REDACTED] FD-302 (Source) dated 10/21/98; 2) Two copies of [REDACTED] FD-302 (Source) dated 10/22/98; 3) Original and one copy of [REDACTED] FD-302 [REDACTED] dated 11/2/98.

Details: Enclosed for New York are the above FD-302s regarding information received about the above investigation. While the documents are self-explanatory, questions may be directed to SA [REDACTED] at the [REDACTED]

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308 [REDACTED] 02.5C

- 1 -

FEDERAL BUREAU OF INVESTIGATION

Date of transcription 10/26/98

SOURCE who is not in a position to testify, provided the following information:

SOURCE advised that [REDACTED]

[REDACTED] SOURCE also advised that [REDACTED]

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UPLOADED
WITH TEXT
WITH [REDACTED]
DATE 11-9-98

a/302, WPD

Investigation on 10/26/98 at Manhattan, New York (telephonically)File # [REDACTED] Date dictated 10/26/98by SA [REDACTED]b3
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b7D
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U.S. Department of Justice

Federal Bureau of Investigation

In Reply, Please Refer to
File No.

26 Federal Plaza
New York, New York 10278
October 14, 1998

[Redacted]
New York, New York

Attn: [Redacted]

Dear [Redacted]

The purpose of this letter is to request system, backup and log information for Internet Protocol address [Redacted] using the Domain Name [Redacted] during the period of August 15, 1998 through September 15, 1998. In particular, any and all information relating to telnet and ftp logs and files is requested. Thank you for your assistance in this matter.

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b7C

Sincerely,

Victor M. Gonzalez
Special Agent in Charge,
Criminal Division

Victor M. Gonzalez */s/*

By:

[Redacted]
Supervisory Special Agent

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[Redacted]

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[Redacted] 11/14/98

11/9/98

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SERIALIZED
OCT 14 1998
FBI — NEW YORK

SEARCHED
SERIALIZED

OCT 30 1998

FBI — NEW YORK

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INVESTIGATIVE INFORMATION REQUEST FORM

FBI, Butte Information Technology Center

400 North Main Street, Room #115

Butte, Montana 59701

- ▷ Commercial Telephone (406) 782-2304
 ▷ FTS: (406) 782-2304 FAX: (406) 782-9504, 782-9507 & 782-7418
 ▷ Secure FAX & STU III: (406) 782-2304, Ext. 26

TO: FBI, BUTTE INFORMATION TECHNOLOGY CENTER

Date: 10/28Forfeiture/Seizure Related: ☐ Type of Request: ☐ FAX ☐ Telcal ☐ MailRequestor: [Redacted]

(Requestor Name is Required)

Phone #: 212 384 3187 FAX #: _____Response: ☐ Telcal ☐ MailUCFN [Redacted]

(UCFN (file #) is Required)

Office/RA: NYPrecedence: ☐ ROUTINE ☐ IMMEDIATE

(Emergency/Crisis Situation)

SEARCH CRITERIA (Attach additional sheets if necessary)

Name - Last: _____ First: _____ Middle: 3

Alias: _____ Sex: _____ DOB1: ____/____/____ DOB2: ____/____/____

SSAN1: [Redacted] SSAN2: _____ Spouse: _____Fugitive: ☐ Yes ☐ No Driver's License #: _____ State: _____

RESIDENCE

Street Address: _____ City/State: _____ Zip: _____ Phone: _____

BUSINESS

Business Name: _____ Street Address: _____

City/State: _____ Zip: _____ Phone: _____ Business ID#: _____

CHECK DESIRED SEARCH PARAMETERS (Please check only those that are needed)

- ☐ 1. Specific Information Desired _____
☒ 2. Determine All Individuals Associated with Social Security Number(s)
☒ 3. Report Validity of Social Security Number
☐ 4. Determine Who is Associated with Telephone Number(s)
☒ 5. Determine Address of Business/Person (____ U.S. _____, _____, _____ State(s))
☐ 6. Determine Property Owned by Individual (____ U.S. _____, _____, _____ State(s))
☐ 7. Determine Who Owns Property Listed Above
☐ 8. Determine Who Resides at Address Listed Above
☐ 9. Determine Financial Background Info, i.e., Bankruptcy, Judgments, Liens, UCC filings, or Lawsuits
☐ 10. Determine Corporate Business Info, i.e., Officer, Director, Registered Agent _____ (Person/Business)
☐ 11. Customs Border Crossings / Subject query / I-94 info (circle one)
☐ 12. Federal Prison Inmate Information
☐ 13. Telemarketing Complaints

Reply From: FBI, Butte Information Technology Center (BITC)

Return Reply To:

SAC, _____

Attention: _____

Based on search criteria, marked records are attached:

☐ Possible Identifiable Records
☐ Other Peripheral Information

☐ Brief Synopsis of Information Found
☐ No Information Found

ITC Use Only:

BITC Record #: 182963Date/Time In: 10/28/11 11:30☐ am ☐ pmDate/Time Out: 10/28/11 12☐ am ☐ pm

Database(s) Used:

1. TRU 5. MA 9. LN
 2. CF 6. [Redacted] 10. PH
 3. _____ 7. _____ 11. _____
 4. _____ 8. _____ 12. _____

Handled By: _____

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REPLY FORM - INVESTIGATIVE INFORMATION SERVICES

To help us better serve your investigative needs, please complete and return to:

FBI, Butte Information Technology Center
400 Main Street, Room #115
Butte, Montana 59701

BUTTE ITC RECORD #: 182963 UCFN:
ANALYST: SUBJECT:

b3
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Was the information provided helpful to your investigation? ☐ YES ☐ NO
If NO, please let us know how we could be more helpful to your investigation: _____

ACCOMPLISHMENT(S) resulting from information:

PERSON(S): (Enter total number applicable to each of the following)

_____ FBI Fugitive(s) Arrested: ☐ FBI ☐ Local Date _____

(Forward photo of Fugitive arrested with this Reply form)

_____ Local Fugitive(s) Arrested: ☐ FBI ☐ Local Date _____

(Forward photo of Fugitive arrested with this Reply form)

_____ Subject(s) ☐ Arrested ☐ Located ☐ Identified

(Forward photo of Subject arrested with this Reply form)

_____ Witness(es) ☐ Located ☐ Identified

_____ New Witness(es) ☐ Located ☐ Identified

BUSINESS(ES): (Enter total number applicable to each of the following)

_____ New Business(es) Identified

_____ New Business Associates/Associations Identified

_____ Financial Audit Trail(s) Enhanced

ASSET(S): (Enter total number applicable to each of the following)

(TYPES: C = CASH R = REAL PROPERTY P = PERSONAL PROPERTY)

_____ Asset(s) ☐ Located ☐ Identified [VALUE: _____ TYPE: _____]

_____ Asset(s) Subject to Seizure/Forfeiture [VALUE: _____ TYPE: _____]

_____ Potential Economic Loss Prevented [VALUE: _____ TYPE: _____]

OTHER: (Enter total number applicable to each of the following)

_____ New Case(s) Initiated _____ New Lead(s) Generated

COMMENTS: _____



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11

Immediate 9:24
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P.01



INVESTIGATIVE INFORMATION REQUEST FORM

FBI, Butte Information Technology Center
400 North Main Street, Room #115
Butte, Montana 59701

- Commercial Telephones (406) 782-2304
► FTS: (406) 782-2304 FAX: (406) 782-9504, 782-9507 & 782-7418
► Secure FAX & STU III: (406) 782-2304, Ext. 26

ITC Use Only:

BITC Record #: 183649

Date/Time In: 11-5 17:15 ☐ am ☐ pmDate/Time Out: 11/6 11:55 ☐ am ☐ pm

Database(s) Used:

1. TRW 5. LN 9. _____

2. _____ 6. PH 10. _____

3. _____ 7. DNIS 11. _____

4. _____ 12. _____

Handled By: _____ b3

TO: FBI, BUTTE INFORMATION TECHNOLOGY CENTER

Date: 11-5-98

Forfeiture/Seizure Related: ☐ Type of Request: ☒ FAX ☐ Telex ☐ MailResponse: ☒ Telex ☐ M

Requestor: SA _____ Phone #: 212-384-3187 FAX #: 212-584-4660

UCFN: _____

Office/RA: _____
(Requester Name is Required)Precedence: ☒ ROUTINE ☐ IMMEDIATE
(Emergency/Crisis Situation)

SEARCH CRITERIA (Attach additional sheets if necessary)

Name - Last: _____ First: _____ Middle: _____

Alias: _____ Sex: M DOB1: / / DOB2: / /

SSAN1: _____ SSAN2: _____ Spouse: _____

Fugitive: ☐ Yes ☒ No Driver's License #: _____ State: _____

RESIDENCE

Street Address: _____ City/State: _____ Zip: _____ Phone: _____

BUSINESS

Business Name: _____ Street Address: _____

City/State: _____ Zip: _____ Phone: _____ Business ID#: _____

CHECK DESIRED SEARCH PARAMETERS (Please check only those that are needed)

- ☐ 1. Specific Information Desired Social Security #, DOB
- ☐ 2. Determine All Individuals Associated with Social Security Number(s)
- ☐ 3. Report Validity of Social Security Number
- ☐ 4. Determine Who is Associated with Telephone Number(s)
- ☐ 5. Determine Address of Business/Person (____ U.S. _____, _____, _____ State(s))
- ☐ 6. Determine Property Owned by Individual (____ U.S. _____, _____, _____ State(s))
- ☐ 7. Determine Who Owns Property Listed Above
- ☐ 8. Determine Who Resides at Address Listed Above
- ☐ 9. Determine Financial Background Info, i.e., Bankruptcy, Judgments, Liens, UCC filings, or Lawsuits
- ☐ 10. Determine Corporate Business Info, i.e., Officer, Director, Registered Agent _____ (Person/Busin)
- ☐ 11. Customs Border Crossings / Subject query / I-94 info (circle one)
- ☐ 12. Federal Prison Inmate Information
- ☐ 13. Telemarketing Complaints

Reply From: FBI, Butte Information Technology Center (BITC)

Return Reply To:

SAC, _____

Attention: _____

Based on search criteria, marked records are attached:

☐ Possible Identifiable Records☐ Brief Synopsis of Information Found☒ Other Peripheral Information☐ No Information Found

[Redacted]

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SEARCH
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[Redacted]

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[Redacted]

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INVESTIGATIVE INFORMATION REQUEST FORM

FBI, Butte Information Technology Center
400 North Main Street, Room #115
Butte, Montana 59701

- > Commercial Telephone (406) 782-2304
> FTS: (406) 782-2304 FAX: (406) 782-9504, 782-9507 & 782-7418
> Secure FAX & STU III: (406) 782-2304, Ext. 26

ITC Use Only:

BITC Record #: 183355

Date/Time In: 11/3/98 10:30

Date/Time Out: 11/6/98 9:30

☐ am ☐ pm
☐ am ☐ pm

Database(s) Used:

- | | | |
|---------|---------|-----------|
| 1. TIZW | 5. 2015 | 9. _____ |
| 2. P.F. | 6. DMV | 10. _____ |
| 3. CDB | 7. AIC | 11. _____ |
| 4. CN | | |

Handled By: _____

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TO: FBI, BUTTE INFORMATION TECHNOLOGY CENTER

Date: 11-2-98

Forfeiture/Seizure Related: ☐ Type of Request: ☐ FAX ☐ Telex ☐ MailResponse: ☐ Telex ☒ Mail

Requester: SA _____

Phone #: 212-384-3187 FAX #: 212 384-4660

UCFN: _____

Office/RA: New York

Precedence: ☒ ROUTINE ☐ IMMEDIATE

(Emergency/Crisis Situation)

SEARCH CRITERIA (Attach additional sheets if necessary)

Name - Last: _____ First: _____ Middle: _____

Alias: _____ Sex: M DOB1: _____ DOB2: _____

SSAN1: _____ SSAN2: _____ Spouse: _____

Fugitive: ☐ Yes ☒ No Driver's License #: _____ State: _____

RESIDENCE

Street Address: _____ City/State: _____ Zip: _____ Phone: _____

BUSINESS

Business Name: _____ Street Address: _____

City/State: _____ Zip: _____ Phone: _____ Business ID#: _____

CHECK DESIRED SEARCH PARAMETERS (Please check only those that are needed)

- ☐ 1. Specific Information Desired Social Security #
- ☒ 2. Determine All Individuals Associated with Social Security Number(s)
- ☐ 3. Report Validity of Social Security Number
- ☒ 4. Determine Who is Associated with Telephone Number(s)
- ☐ 5. Determine Address of Business/Person (____ U.S. _____, _____, _____ State(s))
- ☒ 6. Determine Property Owned by Individual (____ U.S. _____, _____, _____ State(s))
- ☐ 7. Determine Who Owns Property Listed Above
- ☒ 8. Determine Who Resides at Address Listed Above
- ☒ 9. Determine Financial Background Info, i.e., Bankruptcy, Judgments, Liens, UCC filings, or Lawsuits
- ☐ 10. Determine Corporate Business Info, i.e., Officer, Director, Registered Agent _____ (Person/Business)
- ☐ 11. Customs Border Crossings / Subject query / I-94 info (circle one)
- ☐ 12. Federal Prison Inmate Information
- ☐ 13. Telemarketing Complaints

Reply From: FBI, Butte Information Technology Center (BITC)

Return Reply To:

SAC, _____

Attention: _____

Based on search criteria, marked records are attached:

- ☐ Multiple Identifiable Records
- ☐ Other Peripheral Information

- ☐ Brief Synopsis of Information Found
- ☐ No Information Found

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SERIALIZED

FILED

OCT 30 1998

FBI — NEW YORK

[Redacted]

[Redacted]



INVESTIGATIVE INFORMATION REQUEST FORM

FBI, Butte Information Technology Center
400 North Main Street, Room #115
Butte, Montana 59701

- Commercial Telephones (406) 782-2304
► FTS: (406) 782-2304 FAX: (406) 782-9304, 782-9307 & 782-7418
► Secure FAX & STU III: (406) 782-2304, Ext. 26

TO: FBI, BUTTE INFORMATION TECHNOLOGY CENTER

Date: 10-23-98Forfeiture/Seizure Related: ☐ Type of Request: ☒ FAX ☐ Telex ☐ MailResponse: ☐ Telex ☒ MailRequester: SA [redacted] Phone #: 212-384-3187 FAX #: 212-384-4660UCFN: [redacted]Office/RA: New YorkProcedure: ☐ ROUTINE ☐ IMMEDIATE

(Emergency/Crisis Situation)

SEARCH CRITERIA (Attach additional sheets if necessary)

Name - Last: [redacted] First: [redacted] Middle: [redacted]Alias: [redacted] Sex: M DOB1: [redacted] DOB2: [redacted]SSAN1: [redacted] SSAN2: [redacted] Spouse: [redacted]Fugitive: ☐ Yes ☒ No Driver's License #: [redacted] State: [redacted]

RESIDENCE

Street Address: [redacted] City/State: [redacted] Zip: [redacted] Phone: [redacted]

BUSINESS

Business Name: [redacted] Street Address: [redacted]City/State: [redacted] Zip: [redacted] Phone: [redacted] Business ID#: [redacted]

CHECK DESIRED SEARCH PARAMETERS (Please check only those that are needed)

- ☐ 1. Specific Information Desired
- ☒ 2. Determine All Individuals Associated with Social Security Number(s)
- ☒ 3. Report Validity of Social Security Number
- ☐ 4. Determine Who is Associated with Telephone Number(s)
- ☐ 5. Determine Address of Business/Person (____ U.S. _____, _____ State(s))
- ☐ 6. Determine Property Owned by Individual (____ U.S. _____, _____ State(s))
- ☐ 7. Determine Who Owns Property Listed Above
- ☒ 8. Determine Who Resides at Address Listed Above
- ☒ 9. Determine Financial Background Info, i.e., Bankruptcy, Judgments, Liens, UCC filings, or Lawsuits
- ☒ 10. Determine Corporate Business Info, i.e., Officer, Director, Registered Agent _____ (Person/Business)
- ☐ 11. Customs Border Crossings / Subject query / I-94 info (circle one)
- ☐ 12. Federal Prison Inmate Information
- ☐ 13. Telemarketing Complaints

Reply From: FBI, Butte Information Technology Center (BITC)

Return Reply To:

SAC, _____

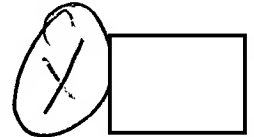
Attention: _____

Based on search criteria, checked records are attached:

☒ Possible Identifiable Records☐ Brief Synopsis of Information Found☐ Other Peripheral Information☐ No Information Found



Federal Bureau of Investigation

Date: 11/6



FBI, Butte Information Technology Center
INVESTIGATIVE INFORMATION SERVICES

400 N. Main St., Room 115

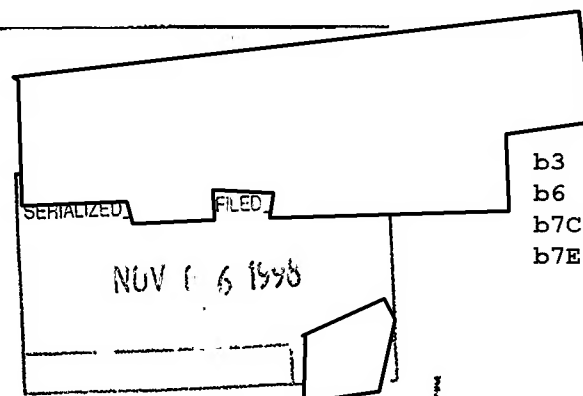
Butte, MT 59701

Telephone: (406) 782-2304

FAX: (406) 782-9504, 782-9507, 782-7418

b6
b7COriginator's Name: To: NEW YORKAttn: SA Phone: _____ FAX: (212) 384-4660Number of Pages: _____
(including coversheet)

Comments:



SERIALIZED ☐ FILED ☐
NOV 16 1998

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INVESTIGATIVE INFORMATION REQUEST FORM

FBI, Butte Information Technology Center
400 North Main Street, Room #115
Butte, Montana 59701

- Commercial Telephones (406) 782-2304
- FTS: (406) 782-2304 FAX: (406) 782-9504, 782-9507 & 782-7418
- Secure FAX & STU III: (406) 782-2304, Ext. 25

ITC Use Only: BITC Record #: 1071077
Date/Time In: 11-5-99 17:15 ☐ per ☐ pd
Date/Time Out: 11/6/99 11:55 ☐ per ☐ pd
Technician Used:
1. TRW 5. LN 9. _____
2. _____ 6. PH 10. _____
3. _____ 7. DAIS 11. _____
4. _____
Handled By: _____

TO: FBI, BUTTE INFORMATION TECHNOLOGY CENTER

Date: 11-5-99Performance/Seizure Related: ☐ Type of Request: ☒ FAX ☐ Telex ☐ Mail Response: ☒ Telex ☐ MailRequester: SA Phone #: 212-384-3197 FAX #: 212-584-4660 UCFN: _____Office/RA: New York Precedence: ☒ ROUTINE ☐ IMMEDIATE
(Emergency/Crisis Situation)

SEARCH CRITERIA (Attach additional sheets if necessary)

Name - Last: _____ First: _____ Middle: _____

Alias: _____ Sex: M DOB1: 1 1 1 DOB2: 1 1 1

SSAN1: _____ SSAN2: _____ Spouse: _____

Fugitive: ☐ Yes ☒ No Driver's License #: _____ State: _____

RESIDENCE

Street Address: _____ City/State: _____ Zip: _____ Phone: _____

BUSINESS

Business Name: _____ Street Address: _____

City/State: _____ Zip: _____ Phone: _____ Business ID#: _____

CHECK DESIRED SEARCH PARAMETERS (Please check only those that are needed)

- ☐ 1. Specific Information Desired SOCIAL SECURITY #, DOB
- ☐ 2. Determine All Individuals Associated with Social Security Number(s)
- ☐ 3. Report Validity of Social Security Number
- ☐ 4. Determine Who is Associated with Telephone Number(s)
- ☐ 5. Determine Address of Business/Person (____ U.S. _____ State(s))
- ☐ 6. Determine Property Owned by Individual (____ U.S. _____ State(s))
- ☐ 7. Determine Who Owns Property Listed Above
- ☐ 8. Determine Who Resides at Address Listed Above
- ☐ 9. Determine Financial Background Info, i.e., Bankruptcy, Judgments, Liens, UCC filings, or Lawsuits
- ☐ 10. Determine Corporate Business Info, i.e., Officer, Director, Registered Agent _____ (Person/Busin)
- ☐ 11. Customs Border Crossings / Subject query / I-94 info (circle one)
- ☐ 12. Federal Prison Inmate Information
- ☐ 13. Telemarketing Complaints

Reply From: FBI, Butte Information Technology Center (BITC)

Return Reply To:

SAC, _____

Attention: _____

Based on search criteria, marked records are attached:

- ☐ Possible Identifiable Records ☐ Brief Synopsis of Information Found
- ☒ Other Pertinent Information ☐ No Information Found

Page 102 ~ b6; b7C; b7E;
Page 103 ~ b6; b7C; b7E;
Page 104 ~ b6; b7C; b7E;
Page 105 ~ b6; b7C; b7E;
Page 106 ~ b6; b7C; b7E;
Page 107 ~ b6; b7C; b7E;
Page 108 ~ b6; b7C; b7E;
Page 109 ~ b6; b7C; b7E;
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Page 122 ~ b6; b7C; b7E;
Page 123 ~ b6; b7C; b7E;
Page 124 ~ b6; b7C; b7E;
Page 125 ~ b6; b7C; b7E;
Page 126 ~ b6; b7C; b7E;
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Page 134 ~ b6; b7C; b7E;
Page 135 ~ b6; b7C; b7E;
Page 136 ~ b6; b7C; b7E;
Page 137 ~ b6; b7C; b7E;
Page 138 ~ b6; b7C; b7E;
Page 139 ~ b6; b7C; b7E;
Page 140 ~ b6; b7C; b7E;
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Page 151 ~ b6; b7C; b7E;
Page 152 ~ b6; b7C; b7E;
Page 153 ~ b6; b7C; b7E;
Page 154 ~ b6; b7C; b7E;
Page 155 ~ b6; b7C; b7E;
Page 156 ~ b6; b7C; b7E;
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